### **\*ATENT COOPERATION TRE**

## From the INTERNATIONAL BUREAU **PCT** Commissioner **US Department of Commerce NOTIFICATION OF ELECTION** United States Patent and Trademark (PCT Rule 61.2) Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202 **ETATS-UNIS D'AMERIQUE** Date of mailing (day/month/year) in its capacity as elected Office 10 January 2001 (10.01.01) Applicant's or agent's file reference International application No. PCT/US00/12847 4239-55085 Priority date (day/month/year) International filing date (day/month/year) 12 May 1999 (12.05.99) 10 May 2000 (10.05.00) NEAMATI, Nouri et al 1. The designated Office is hereby notified of its election made: in the demand filed with the International Preliminary Examining Authority on: 04 December 2000 (04.12.00) in a notice effecting later election filed with the International Bureau on: 2. The election made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

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(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of	of Transmittal of International Search Report								
		20) as well as, where applicable, item 5 below.								
4239-55085 International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)								
PCT/US 00/12847	10/05/2000	12/05/1999								
Applicant										
THE GOVERNMENT OF THE UNI	TED STATES OF AMERICA, as									
This International Search Report has bee	n prepared by this International Searching Auth	pority and is transmitted to the applicant								
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.										
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This International Search Report consists of a total of sheets.										
It is also accompanied by a copy of each prior art document cited in this report.										
Basis of the report										
<ul> <li>With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</li> </ul>										
the international search v	vas carried out on the basis of a translation of t	he international application furnished to this								
Authority (Rule 23.1(b)).										
b. With regard to any <b>nucleotIde ar</b> was carried out on the basis of th		nternational application, the international search								
_	onal application in written form.									
	filed together with the international application in computer readable form.									
furnished subsequently to this Authority in written form.										
furnished subsequently to this Authority in computer readble form.  the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the										
	as filed has been furnished.									
the statement that the inf furnished	ormation recorded in computer readable form is	s identical to the written sequence listing has been								
luttistied										
2. Certain claims were fou	ınd unsearchable (See Box I).									
3. Unity of invention is lacking (see Box II).										
4. With regard to the title,										
the text is approved as si	ubmitted by the applicant.									
the text has been establis	the text has been established by this Authority to read as follows:									
5. With regard to the abstract,										
X the text is approved as so										
	shed, according to Rule 38.2(b), by this Authori e date of mailing of this international search re									
within one month from the date of mailing of this international search report, submit comments to this Authority.  6. The figure of the <b>drawings</b> to be published with the abstract is Figure No.										
as suggested by the appl	•	None of the figures.								
		[A] Notice of the lightes.								
because the applicant fai										
L because this figure better	r characterizes the invention.									

Form PCT/ISA/210 (first sheet) (July 1998)

al Application No PC17JS 00/12847

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D513/04 A61K A61K31/55 A61P31/18 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 CO7D A61K A61P Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, CHEM ABS Data, BEILSTEIN Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category 9 Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. GAROFALO ET AL.: "Thioanalogues of X 32,35 anti-tumor antibiotics..." EUR.J.MED.CHEM., vol. 28, 1993, pages 213-220, XP000940751 page 214 -page 217 GAROFALO ET AL.: "Benzothiazine and X 32,35 benzothiazepine derivatives..." IL FARMACO, vol. 48, no. 2, 1993, pages 275-283, XP002044896 page 277 X US 4 045 448 A (EFFLAND RICHARD C ET AL) 29,37, 30 August 1977 (1977-08-30) 43-45 column 1 -/--X Further documents are listed in the continuation of box C. X Patent family members are listed in annex. Special categories of cited documents: \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 4 October 2000 25/10/2000 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

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Steendijk, M

al Application No s 00/12847

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C.(Continu	Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT						
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.					
A	WO 98 18473 A (HAZUDA DARIA JEAN ;BELL IAN M (US); MERCK & CO INC (US); MUNSON PE) 7 May 1998 (1998-05-07) claim 1	1-45					
A	NEAMATI N ET AL: "DESIGN AND DISCOVERY OF HIV-1 INTEGRASE INHIBITORS" DRUG DISCOVERY TODAY,GB,ELSEVIER SCIENCE LTD, vol. 2, 1997, pages 487-498, XP000911100	1-45					
	ISSN: 1359-6446 the whole document						
Ρ,Χ	N NEAMATI ET AL: "Design and discovery if HIV-1 integrase inhibitors" DRUG DISCOVERY TODAY, ELSEVIER SCIENCE LTD, GB,	1-45					
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